



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 2  
DESA/HWSB/HWSS  
2890 Woodbridge Avenue, Edison, NJ 08837

## EXECUTIVE NARRATIVE

**Case No.:** 47747

**Site:** Pierson's Creek

**Number of Samples:** 5 (Soil)

**Analysis:** VOA, SVOA and ARO

**SDG No.:** BE7Z7

**Laboratory:** Chemtech Consulting Group

**Sampling dates:** 12/13/18-12/17/18

**Validation SOP:** HW-33A (Rev. 1), HW-35A (Rev.1),  
HW-37A (Rev. 0)

**QAPP:**

**Contractor:** CDM Smith

**Reference:** DCN: 3323-077-03593, July 30, 2018

### **SUMMARY OF DEFINITIONS:**

**Critical:** Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.

**Major:** A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data has been qualified "J" estimated. "J+" and "J-" represent likely direction of the bias.

**Minor:** The level of uncertainty is acceptable. No significant bias in the data was observed.

### **Critical Findings:**

**SVOA:** Sample BE7Z7 has an analyte that has been qualified R due to DMC/Surrogate failure.

### **Major Findings:**

The following samples have analytes that have been qualified J, J+ or J-;

**VOA:** BE7ZRE, BE7Z9, BE814RE

**SVOA:** BE7Z7, BE802, BF023, BF025

**ARO:** BE7Z7, BF023, BF025

### **Minor Findings:**

One or more analytes in one or more samples are qualified "J" due to results between MDL and CRQL.

**COMMENTS:** The site specific QAPP did not provide project action levels for samples from this site.

**Reviewer Name(s):** Israel Okwuonu

**Approver's Signature:**

**Date:** 02/19/2019

**Name:** Russell Arnone

**Affiliation:** USEPA/R2/HWSB/HWSS



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Data Qualifier Definitions (National Functional Guidelines)			
Qualifier Symbol	Explanation		
	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.	
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.	
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
N		The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".	
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
C		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.	



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## DATA ASSESSMENT

### ANALYSIS: VOA

The current SOP HW-33A (Revision 1) September 2016, USEPA Region II for the evaluation of Volatile organic data generated through Statement of Work SOM02.2 and any future editorial revisions of SOM02.2 has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report. Tentatively Identified Compounds (TICs) for VOA organic fraction is not validated.

#### 1. HOLDING TIME AND PRESERVATION:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

#### 2. DEUTERATED MONITORING COMPOUNDS (DMC's)

All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery limits were outside Table 6 of the SOP HW-33A (Revision 1) qualifications were applied as per Table 7 SOP HW-33A (Revision 1) to all the samples and analytes as shown below.

The following sample has DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Non-detects are qualified as estimated UJ.

**Chloroform-d BE7Z9**

1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

**1,1,2,2-Tetrachloroethane-d2 BE7Z9**

1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Non-detects are not qualified.

**Chloroethane-d5 BE814**

Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon disulfide

**Benzene-d6 BE7Z6, BE814**

Benzene



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**1,2-Dichloropropane-d6** BE7Z6RE, BE7Z6, BE7Z9, BE814  
Cyclohexane, Methyl cyclohexane, 1,2-Dichloropropane, Bromodichloromethane

**1,2-Dichlorobenzene-d4** BE814  
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD):**

**MS/MSD** data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

Not applicable.

**4. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as per Table 5 of SOP HW-33A (Rev 1).

**A) Method blank contamination:**

No qualification due to method blank contamination is required.

**B) Field or rinse blank contamination:**

Not applicable

**C) Trip blank contamination:**

Not applicable.

**D) Storage Blank associated with VOA samples only:**

The following samples have analyte results reported less than 2x the CRQLs. The associated storage blank results are less than 2x the CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

**Methylene chloride** BE7Z6, BE814, BE814RE

**E) Tentatively Identified Compounds:**

Tentatively Identified Compounds (TICs) for VOA organic fractions are not validated.

**5. MASS SPECTROMETER TUNING:**



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Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial calibration, ICV and continuing calibration should meet the minimum RRF criteria as listed in Table 2 of SOP HW 33A (Revision 1). If RRF is less than minimum RRF specified in Table 2 for all target analytes, use professional judgment and all detects in the sample will be qualified as "J+" or "R". All non-detects for that compound will be rejected "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration.

Percent RSD must be less than maximum %RSD in Table 2 of SOP HW 33A (Revision 1) for all target analytes. For the Initial calibration verification ICV/opening or closing CCV %D must be within the inclusive opening or closing maximum %D limits as listed in Table 2 of SOP HW 33A (Revision 1) for all Target compounds. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, detects may be qualified as "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**7. INTERNAL STANDARDS PERFORMANCE GC/MS:**



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Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must be in the range as specified in Table 9 of SOP HW 33A (Rev 1) of the associated continuing calibration internal standard area. The retention time of the internal standards must be within the range as specified in Table 9 of SOP HW 33A (Rev 1). If the area count is greater than, all positive results quantitated using that IS are qualified as estimated “J-”, and non-detects are not qualified. If the area count is less than the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated “J+” and all non-detects are qualified “R”.

If an internal standard retention time were not met as specified in Table 9 of SOP HW 33A (Rev 1), the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below. Qualifications were applied to the samples and analytes as shown below.

The following samples have internal standard area response less than expanded minimum criteria. Detects are qualified as estimated J+. Non-detects are qualified as unusable R.

**1,4-Dichlorobenzene-d4 BE814**

Bromoform, 1, 3-Dichlorobenzene, 1, 4-Dichlorobenzene, 1, 2-Dichlorobenzene, 1, 2-Dibromo-3-chloropropane, 1, 2, 4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following samples have internal standard area response greater than or equal to expanded minimum criteria and less than primary minimum criteria. Detects are qualified as estimated J+. Non-detects are qualified as estimated UJ.

**Chlorobenzene-d5 BE814**

1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, Trichloroethene, Methycyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromomethane, Chlorobenzene, Ethylbenzene, m,p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane

**1,4-Dichlorobenzene-d4 BE7Z6RE, BE7Z6, BE7Z9, BE814RE**

Bromoform, 1, 3-Dichlorobenzene, 1, 4-Dichlorobenzene, 1, 2-Dichlorobenzene, 1, 2-Dibromo-3-chloropropane, 1, 2, 4-Trichlorobenzene, 1,2,3-Trichlorobenzene

**8. FIELD DUPLICATES:**

No Field Duplicate sample was identified in this SDG.

**9. COMPOUND IDENTIFICATION:**

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within a window of 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have



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**provided false positive identifications. Qualifications were applied to the samples and analytes as shown below.**

No problems were found for this criterion.

**10. CONTRACT PROBLEMS NON-COMPLIANCE:**

None

**11. FIELD DOCUMENTATION:**

No problems were identified.

**12. OTHER PROBLEMS:**

BE7Z9: Benzene result is qualified J as the reported value is over the calibration range. The methanol dilution analysis was done but the result was less than CRQL.

**13. DILUTIONS, RE-EXTRactions & REANALYSIS:**

**Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.**

The following dilution samples were only used for one or more analytes;  
BF024DL, BF023DL2

The following initial analysis and /or reanalysis samples were not used.  
BE7Z6, BE7Z9ME, BE814

**ANALYSIS: SVOA**

The current SOP HW-35A (Rev. 1) September 2016, USEPA Region II for the evaluation of Semi-Volatile organic data generated through Statement of Work SOM02.2, and any future editorial revisions of SOM02.2, has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report. Tentatively Identified Compounds (TICs) for BNA organic fraction is not validated.

**1. HOLDING TIME AND PRESERVATION:**

**The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded, qualifications will be applied as per SOP HW-35A (Rev 1).**

No problems were found for this criterion.

**2. DEUTERATED MONITORING COMPOUNDS (DMCs)**



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All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery limits were outside Table 6 of SOP HW-35A (Revision 1), qualifications were applied as per Table 7 of SOP HW-35A (Rev. 1) to all the samples and analytes as shown below.

The following diluted sample analyses have DMC/surrogate percent recoveries less than the expanded minimum criteria. Detects are qualified J-. Non-detects are qualified R.

1,4-Dioxane-d8 BE7Z7

1,4-Dioxane

The following undiluted sample analyses have DMC/surrogate percent recoveries less than the primary minimum criteria. Detects are qualified as estimated J-. Non-detects are qualified as estimated UJ.

**4-Nitrophenol-d4** BE802, BF023, BF025, BE7Z7

2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline.

**4,6-Dinitro-2-methylphenol-d2** BE802, BF023, BF025, BE7Z7

4,6-Dinitro-2-methylphenol

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD):**

MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

Not applicable.

**4. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as per Table 5 of SOP HW-35A (Rev 1).

**A) Method blank contamination:**

No problems were found for this criterion.

**B) Field or rinse blank contamination:**

Not applicable.

**C) Tentatively Identified Compounds:**



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Tentatively Identified Compounds (TICs) for BNA organic fraction are not validated.

**5. MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for Semi-volatiles is Decafluorotriphenyl-phosphine (DFTPP). If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this criterion.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial calibration, ICV and continuing calibration should meet the minimum RRF criteria as listed in Table 2 of SOP HW 35A (Rev 1). If RRF is less than minimum RRF as specified in Table 2 for all target analytes, use professional judgment and all detects in the sample will be qualified as "J+" or "R". All non-detects for that compound will be rejected "R".

No problems were found for this criterion.

**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance.

Percent RSD must be less than maximum %RSD in Table 2 of SOP HW 35A (Rev 1) for all target analytes. For the initial calibration verification ICV/ opening or closing CCV %D must be within the inclusive opening or closing maximum %D limits as listed in Table 2 of SOP HW 35A (Rev 1) for all Target compounds. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, detects may be qualified as "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

The following analytes in the sample shown were qualified for %RSD and %D:



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The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as estimated UJ.

**Indeno(1,2,3-cd)pyrene BE7Z7**

**7. INTERNAL STANDARDS PERFORMANCE GC/MS:**

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must be in the range as specified in Table 10 of SOP HW 35A (Rev 1) of the associated continuing calibration internal standard area. The retention time of the internal standards must be within the range as specified in Table 10 of SOP HW 35A (Rev 1). If the area count is greater than, all positive results quantitated using that IS are qualified as estimated “J-”, and non-detects are not qualified. If the area count is less than the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated “J+” and all non-detects are qualified “R”.

If an internal standard retention time were not met as specified in Table 10 of SOP HW 35A (Rev 1), the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**8. FIELD DUPLICATES:**

No Field Duplicate sample was identified in this SDG.

**9. COMPOUND IDENTIFICATION:**

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**10. CONTRACT PROBLEMS NON-COMPLIANCE:**

None

**11. FIELD DOCUMENTATION:**

No problems were identified.

**12. OTHER PROBLEMS:**



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None

**13. DILUTIONS, RE-EXTRactions and REANALYSIS:**

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

**ANALYSIS: AROCLOR**

The current SOP HW-37A (Rev. 0) June 2015, USEPA Region II for the evaluation of PCB data generated through Statement of Work SOM02.2, and any future editorial revisions of SOM02.2, has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report.

**1. HOLDING TIME AND PRESERVATION:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". Use professional judgment to qualify the non-detects (sample quantitation limits), if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**2. SURROGATES:**

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery were outside Table 5 of the SOP HW-37A (Rev. 0), qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD):**

MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

The following matrix/matrix spike duplicate samples have percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J. Non-detects are not qualified.

Aroclor-1016 BF023, BF023MS, BF023MSD



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Aroclor-1260 BF023, BF023MS, BF023MSD

**4. Laboratory Control Samples (LCS):**

LCS data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems were found for this criterion.

**5. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U. Qualifications were applied to the samples and analytes as shown below.

**A) Method blank contamination:**

No problems were found for this criterion.

**B) Field or rinse blank contamination:**

Not applicable.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Percent Relative Standard Deviation (%RSD):**

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**B) Percent Difference (%D):**

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 25% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".



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**For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results “J” and non-detects “UJ”. Qualifications were applied to the samples and analytes as shown below.**

No problems were found for this criterion.

**7. FIELD DUPLICATES:**

No Field Duplicate sample was identified in this SDG.

**8. COMPOUND IDENTIFICATION:**

**The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract. Qualifications were applied to the samples and analytes as shown below.**

Percent Differences	Qualifier
0% - 25%	No qualification
26% - 70%	J
71% - 200% (interference detected, either column)	JN
>50% (ARO value <CRQL, value raised to CRQL)	U
>200%	R

The following samples were qualified for % difference on the two columns.

BE7Z7, BF023, BF023DL, BF025, BF025DL, BF023MS, BF023MSD,

**9. CONTRACT PROBLEMS NON-COMPLIANCE:**

None

**10. FIELD DOCUMENTATION:**

No problems were identified.

**11. OTHER PROBLEMS:**

Samples BF023MS and BF023MSD have Aroclor-1254 and Aroclor-1260 concentrations above the calibration range, and no dilution analysis was performed. Affected analytes are qualified J.

**12. DILUTIONS, RE-EXTRACTIONS & RE-ANALYSIS:**

**Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.**

The following dilution samples were only used for one or more analytes.  
BF023DL, BF025DL

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: ABLK48	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1221	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1232	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1242	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1248	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1254	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1260	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1262	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1268	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: ALCS48	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	37		ug/kg	37		1.0	YES	S3VEM
Aroclor-1221	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1232	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1242	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1248	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1254	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1260	Spike	40		ug/kg	40		1.0	YES	S3VEM
Aroclor-1262	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM
Aroclor-1268	Target	33	U	ug/kg	33	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z6	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 10:32:00
% Moisture:		% Solids: 45.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Chloromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Vinyl chloride	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Bromomethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Chloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Acetone	Target	290		ug/kg	290		1.0	YES	S3VEM
Carbon disulfide	Target	12		ug/kg	12		1.0	YES	S3VEM
Methyl Acetate	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Methylene chloride	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
2-Butanone	Target	96		ug/kg	96		1.0	YES	S3VEM
Bromochloromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Chloroform	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Cyclohexane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Benzene	Target	31		ug/kg	31		1.0	YES	S3VEM
1,2-Dichloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Trichloroethene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.9	J+	ug/kg	5.9	J	1.0	YES	S3VEM
1,2-Dichloropropane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Bromodichloromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	24	U	ug/kg	24	U	1.0	YES	S3VEM
Toluene	Target	9.9	J	ug/kg	9.9	J	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Tetrachloroethene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
2-Hexanone	Target	24	U	ug/kg	24	U	1.0	YES	S3VEM
Dibromochloromethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Chlorobenzene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Ethylbenzene	Target	4.9	J	ug/kg	4.9	J	1.0	YES	S3VEM
o-xylene	Target	11	J	ug/kg	11	J	1.0	YES	S3VEM
m,p-Xylene	Target	13		ug/kg	13		1.0	YES	S3VEM
Styrene	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Bromoform	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
Isopropylbenzene	Target	9.7	J	ug/kg	9.7	J	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	12	UJ	ug/kg	12	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclohexane, 1,1-(1,2-dimethyl-1,	TIC	13	J	ug/kg	13	J	1.0	YES	S3VEM
unknown-11	TIC	18	J	ug/kg	18	J	1.0	YES	S3VEM
Ethyl ether	TIC	4800	J	ug/kg	4800	J	1.0	YES	S3VEM
unknown-05	TIC	9.7	J	ug/kg	9.7	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,4-dimethyl-	TIC	13	J	ug/kg	13	J	1.0	YES	S3VEM
unknown-10	TIC	21	J	ug/kg	21	J	1.0	YES	S3VEM
unknown-03	TIC	22	J	ug/kg	22	J	1.0	YES	S3VEM
unknown-08	TIC	11	J	ug/kg	11	J	1.0	YES	S3VEM
unknown-02	TIC	12	J	ug/kg	12	J	1.0	YES	S3VEM
Sulfurous acid, 2-ethylhexyl hexad	TIC	58	J	ug/kg	58	J	1.0	YES	S3VEM
Benzene, 1-ethyl-2-methyl-	TIC	63	J	ug/kg	63	J	1.0	YES	S3VEM
1-Dodecanol, 2-hexyl-	TIC	21	J	ug/kg	21	J	1.0	YES	S3VEM
Naphthalene, decahydro-2-methyl-	TIC	24	J	ug/kg	24	J	1.0	YES	S3VEM
1H-Indene, 2,3-dihydro-2-methyl-	TIC	37	J	ug/kg	37	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	57	J	ug/kg	57	J	1.0	YES	S3VEM
Benzene, propyl-	TIC	35	J	ug/kg	35	J	1.0	YES	S3VEM
unknown-04	TIC	20	J	ug/kg	20	J	1.0	YES	S3VEM
unknown-07	TIC	6.9	J	ug/kg	6.9	J	1.0	YES	S3VEM
unknown-06	TIC	16	J	ug/kg	16	J	1.0	YES	S3VEM
Indane	TIC	15	J	ug/kg	15	J	1.0	YES	S3VEM
Benzene, 1-ethyl-3-methyl-	TIC	31	J	ug/kg	31	J	1.0	YES	S3VEM
unknown-01	TIC	46	J	ug/kg	46	J	1.0	YES	S3VEM
unknown-09	TIC	21	J	ug/kg	21	J	1.0	YES	S3VEM
Total Alkanes	TIC	390	B	ug/kg	390	B	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z7	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/13/2018	Sample Time: 13:55:00
% Moisture:		% Solids: 91.4	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1221	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1232	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1242	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1248	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1254	Target	170		ug/kg	170		1.0	YES	S3VEM
Aroclor-1260	Target	95	NJ	ug/kg	95	P	1.0	YES	S3VEM
Aroclor-1262	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM
Aroclor-1268	Target	36	U	ug/kg	36	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z7	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/13/2018	Sample Time: 13:55:00
% Moisture:		% Solids: 91.4	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	370	R	ug/kg	370	U	5.0	YES	S3VEM
Benzaldehyde	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Phenol	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
2-Chlorophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2-Methylphenol	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Acetophenone	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
4-Methylphenol	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Hexachloroethane	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Nitrobenzene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Isophorone	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2-Nitrophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2,4-Dimethylphenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2,4-Dichlorophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Naphthalene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
4-Chloroaniline	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Hexachlorobutadiene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Caprolactam	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2-Methylnaphthalene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
1,1-Biphenyl	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2-Chloronaphthalene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2-Nitroaniline	Target	930	UJ	ug/kg	930	U	5.0	YES	S3VEM
Dimethylphthalate	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
2,6-Dinitrotoluene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Acenaphthylene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
3-Nitroaniline	Target	1800	UJ	ug/kg	1800	U	5.0	YES	S3VEM
Acenaphthene	Target	190	J	ug/kg	190	J	5.0	YES	S3VEM
2,4-Dinitrophenol	Target	1800	UJ	ug/kg	1800	U	5.0	YES	S3VEM
4-Nitrophenol	Target	1800	UJ	ug/kg	1800	U	5.0	YES	S3VEM
Dibenzofuran	Target	190	J	ug/kg	190	J	5.0	YES	S3VEM
2,4-Dinitrotoluene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Diethylphthalate	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Fluorene	Target	190	J	ug/kg	190	J	5.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
4-Nitroaniline	Target	1800	UJ	ug/kg	1800	U	5.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	1800	UJ	ug/kg	1800	U	5.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Hexachlorobenzene	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Atrazine	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Pentachlorophenol	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Phenanthrene	Target	4700		ug/kg	4700		5.0	YES	S3VEM
Anthracene	Target	820	J	ug/kg	820	J	5.0	YES	S3VEM
Carbazole	Target	800	J	ug/kg	800	J	5.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Di-n-butylphthalate	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Fluoranthene	Target	6200		ug/kg	6200		5.0	YES	S3VEM
Pyrene	Target	5600		ug/kg	5600		5.0	YES	S3VEM
Butylbenzylphthalate	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Benzo(a)anthracene	Target	2900		ug/kg	2900		5.0	YES	S3VEM
Chrysene	Target	2800		ug/kg	2800		5.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Di-n-octyl phthalate	Target	1800	U	ug/kg	1800	U	5.0	YES	S3VEM
Benzo(b)fluoranthene	Target	3400		ug/kg	3400		5.0	YES	S3VEM
Benzo(k)fluoranthene	Target	1400		ug/kg	1400		5.0	YES	S3VEM
Benzo(a)pyrene	Target	2200		ug/kg	2200		5.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	1100	J	ug/kg	1100		5.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	420	J	ug/kg	420	J	5.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	1000		ug/kg	1000		5.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	930	U	ug/kg	930	U	5.0	YES	S3VEM
Phenol, 4-(1,1,3,3-tetramethylbutyl	TIC	870	J	ug/kg	870	J	5.0	YES	S3VEM
9,10-Anthracenedione	TIC	1000	J	ug/kg	1000	J	5.0	YES	S3VEM
Triphenylene, 2-methyl-	TIC	430	J	ug/kg	430	J	5.0	YES	S3VEM
Phenol, 2-(1,1-dimethylethyl)-6-me	TIC	450	J	ug/kg	450	J	5.0	YES	S3VEM
9H-Fluoren-9-one	TIC	480	J	ug/kg	480	J	5.0	YES	S3VEM
Pyrene, 1-methyl-	TIC	700	J	ug/kg	700	J	5.0	YES	S3VEM
Cyclopenta(def)phenanthrenone	TIC	830	J	ug/kg	830	J	5.0	YES	S3VEM
4H-Cyclopenta[def]phenanthrene	TIC	940	J	ug/kg	940	J	5.0	YES	S3VEM
11H-Benzo[a]fluoren-11-one	TIC	410	J	ug/kg	410	J	5.0	YES	S3VEM
unknown-01	TIC	1300	J	ug/kg	1300	J	5.0	YES	S3VEM
Anthracene, 2-methyl-	TIC	710	J	ug/kg	710	J	5.0	YES	S3VEM
Phenol, 4-(1,1-dimethylpropyl)-	TIC	660	J	ug/kg	660	J	5.0	YES	S3VEM
di-p-Tolylacetylene	TIC	400	J	ug/kg	400	J	5.0	YES	S3VEM
Benzene, 1-butyl-4-methoxy-	TIC	600	J	ug/kg	600	J	5.0	YES	S3VEM
Benzo[e]pyrene	TIC	2500	J	ug/kg	2500	J	5.0	YES	S3VEM
Total Alkanes	TIC	1700		ug/kg	1700		5.0	YES	S3VEM
Phenol, m-tert-butyl-	TIC	860	J	ug/kg	860	J	5.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z8	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 10:45:00
% Moisture:		% Solids: 58.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1221	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1232	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1242	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1248	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1254	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1260	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1262	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM
Aroclor-1268	Target	56	U	ug/kg	56	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z8	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 10:45:00
% Moisture:	% Solids: 58.9		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	110	U	ug/kg	110	U	1.0	YES	S3VEM
Benzaldehyde	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Phenol	Target	170	J	ug/kg	170	J	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
2-Chlorophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2-Methylphenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Acetophenone	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
4-Methylphenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Hexachloroethane	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Nitrobenzene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Isophorone	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2-Nitrophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Naphthalene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
4-Chloroaniline	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Caprolactam	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2-Nitroaniline	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Dimethylphthalate	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Acenaphthylene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
3-Nitroaniline	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Acenaphthene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
4-Nitrophenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Dibenzofuran	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Diethylphthalate	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Fluorene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
4-Nitroaniline	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Atrazine	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Pentachlorophenol	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Phenanthrene	Target	81	J	ug/kg	81	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Anthracene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Carbazole	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Fluoranthene	Target	170	J	ug/kg	170	J	1.0	YES	S3VEM
Pyrene	Target	170	J	ug/kg	170	J	1.0	YES	S3VEM
Butylbenzylphthalate	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Chrysene	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	560	U	ug/kg	560	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	260	J	ug/kg	260	J	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	100	J	ug/kg	100	J	1.0	YES	S3VEM
Benzo(a)pyrene	Target	210	J	ug/kg	210	J	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	140	J	ug/kg	140	J	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	290	U	ug/kg	290	U	1.0	YES	S3VEM
Total Alkanes	TIC	800		ug/kg	800		1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/14/2018	Sample Time: 10:00:00
% Moisture:		% Solids: 90.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	65		ug/kg	65		1.0	YES	S3VEM
Carbon disulfide	Target	11		ug/kg	11		1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	10		ug/kg	10	B	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	6.6	J	ug/kg	6.6	J	1.0	YES	S3VEM
Bromoform	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroform	Target	42	J-	ug/kg	42		1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	12	J+	ug/kg	12		1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	210	J	ug/kg	210	E	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	3.3	J	ug/kg	3.3	J	1.0	YES	S3VEM
Methylcyclohexane	Target	1.1	J+	ug/kg	1.1	J	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Toluene	Target	3.0	J	ug/kg	3.0	J	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.96	J	ug/kg	0.96	J	1.0	YES	S3VEM
2-Hexanone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Dibromochloromethane	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	4.3	J	ug/kg	4.3	J	1.0	YES	S3VEM
Ethylbenzene	Target	16		ug/kg	16		1.0	YES	S3VEM
o-xylene	Target	24		ug/kg	24		1.0	YES	S3VEM
m,p-Xylene	Target	8.7		ug/kg	8.7		1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	20		ug/kg	20		1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	2.0	J+	ug/kg	2.0	J	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	4.0	J+	ug/kg	4.0	J	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	UJ	ug/kg	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1-ethyl-2-methyl-	TIC	44	J	ug/kg	44	J	1.0	YES	S3VEM
Benzene, 1,2,3,5-tetramethyl-	TIC	46	J	ug/kg	46	J	1.0	YES	S3VEM
Benzene, 4-ethyl-1,2-dimethyl-	TIC	35	J	ug/kg	35	J	1.0	YES	S3VEM
Benzene, 1,2,4,5-tetramethyl-	TIC	67	J	ug/kg	67	J	1.0	YES	S3VEM
Benzene, 1,2-diethyl-	TIC	86	J	ug/kg	86	J	1.0	YES	S3VEM
Cyclohexene, 1-methyl-	TIC	11	J	ug/kg	11	J	1.0	YES	S3VEM
Benzene, 1,2,3,4-tetramethyl-	TIC	30	J	ug/kg	30	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,4-dimethyl-	TIC	32	J	ug/kg	32	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,3-dimethyl-	TIC	84	J	ug/kg	84	J	1.0	YES	S3VEM
3,4-Dimethylcumene	TIC	6.5	J	ug/kg	6.5	J	1.0	YES	S3VEM
Benzene, 1-methyl-4-(1-methylpropyl	TIC	8.0	J	ug/kg	8.0	J	1.0	YES	S3VEM
Total Alkanes	TIC	260	B	ug/kg	260	B	1.0	YES	S3VEM
2-Propenal, 3-(4-methylphenyl)-	TIC	3.4	J	ug/kg	3.4	J	1.0	YES	S3VEM
unknown-01	TIC	12	J	ug/kg	12	J	1.0	YES	S3VEM
p-Cymene	TIC	19	J	ug/kg	19	J	1.0	YES	S3VEM
Benzamide, 4-methyl-	TIC	20	J	ug/kg	20	J	1.0	YES	S3VEM
Benzene, propyl-	TIC	36	J	ug/kg	36	J	1.0	YES	S3VEM
Benzene, 1-ethyl-4-(1-methylethyl)	TIC	12	J	ug/kg	12	J	1.0	YES	S3VEM
Benzene, (1-methyl-1-butenyl)-	TIC	3.3	J	ug/kg	3.3	J	1.0	YES	S3VEM
Naphthalene, 1,2,3,4-tetrahydro-	TIC	17	J	ug/kg	17	J	1.0	YES	S3VEM
1H-Indene, octahydro-, cis-	TIC	44	J	ug/kg	44	J	1.0	YES	S3VEM
Benzene, 1-methyl-2-propyl-	TIC	62	J	ug/kg	62	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	150	J	ug/kg	150	J	1.0	YES	S3VEM
2-Methyl-7-endo-vinylbicyclo[4.2.0]	TIC	3.8	J	ug/kg	3.8	J	1.0	YES	S3VEM
Indan, 1-methyl-	TIC	24	J	ug/kg	24	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE7Z9ME	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/14/2018	Sample Time: 10:00:00
% Moisture:		% Solids: 90.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Chloromethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Vinyl chloride	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Bromomethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Chloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Trichlorofluoromethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1-Dichloroethene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Acetone	Target	580	U	ug/kg	580	U	1.0	NO	S3VEM
Carbon disulfide	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Methyl Acetate	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Methylene chloride	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
trans-1,2-Dichloroethene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Methyl tert-butyl Ether	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1-Dichloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
cis-1,2-Dichloroethene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
2-Butanone	Target	580	U	ug/kg	580	U	1.0	NO	S3VEM
Bromoform	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Chloroform	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1,1-Trichloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Cyclohexane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Carbon tetrachloride	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Benzene	Target	160	J	ug/kg	160	J	1.0	NO	S3VEM
1,2-Dichloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Trichloroethene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Methylcyclohexane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2-Dichloropropane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Bromodichloromethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
cis-1,3-Dichloropropene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
4-Methyl-2-pentanone	Target	580	U	ug/kg	580	U	1.0	NO	S3VEM
Toluene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
trans-1,3-Dichloropropene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1,2-Trichloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Tetrachloroethene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
2-Hexanone	Target	580	U	ug/kg	580	U	1.0	NO	S3VEM
Dibromochloromethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2-Dibromoethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Chlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Ethylbenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
o-xylene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
m,p-Xylene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Styrene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Bromoform	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
Isopropylbenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,1,2,2-Tetrachloroethane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,3-Dichlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,4-Dichlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2-Dichlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2-Dibromo-3-chloropropane	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2,4-trichlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM
1,2,3-Trichlorobenzene	Target	290	U	ug/kg	290	U	1.0	NO	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC	170	B	ug/kg	170	B	1.0	NO	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE802	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 11:45:00
% Moisture:		% Solids: 88.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1221	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1232	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1242	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1248	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1254	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1260	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1262	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1268	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE802	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 11:45:00
% Moisture:		% Solids: 88.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	75	U	ug/kg	75	U	1.0	YES	S3VEM
Benzaldehyde	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Phenol	Target	98	J	ug/kg	98	J	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2-Chlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Acetophenone	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
4-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachloroethane	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Nitrobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Isophorone	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Nitrophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Naphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Chloroaniline	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Caprolactam	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Nitroaniline	Target	190	UJ	ug/kg	190	U	1.0	YES	S3VEM
Dimethylphthalate	Target	99	J	ug/kg	99	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Acenaphthylene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
3-Nitroaniline	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
Acenaphthene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
4-Nitrophenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
Dibenzofuran	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Diethylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Fluorene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Nitroaniline	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Atrazine	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Pentachlorophenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Phenanthrene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Carbazole	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Di-n-butylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Fluoranthene	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	41	J	ug/kg	41	J	1.0	YES	S3VEM
Chrysene	Target	38	J	ug/kg	38	J	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	850		ug/kg	850		1.0	YES	S3VEM
Di-n-octyl phthalate	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	54	J	ug/kg	54	J	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	46	J	ug/kg	46	J	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Dibenz(a,h)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Benzene, 1-methyl-3-propyl-	TIC	150	J	ug/kg	150	J	1.0	YES	S3VEM
Benzene, propyl-	TIC	350	J	ug/kg	350	J	1.0	YES	S3VEM
Urea, butyl-	TIC	280	J	ug/kg	280	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,4-dimethyl-	TIC	500	J	ug/kg	500	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	1900	J	ug/kg	1900	J	1.0	YES	S3VEM
unknown-01	TIC	290	J	ug/kg	290	J	1.0	YES	S3VEM
Benzene, 1-ethyl-3,5-dimethyl-	TIC	480	J	ug/kg	480	J	1.0	YES	S3VEM
Benzene, (1-methylethyl)-	TIC	84	J	ug/kg	84	J	1.0	YES	S3VEM
Total Alkanes	TIC	310		ug/kg	310		1.0	YES	S3VEM
Benzene, 1,3-diethyl-	TIC	350	J	ug/kg	350	J	1.0	YES	S3VEM
Benzene, 1-ethyl-3-methyl-	TIC	1300	J	ug/kg	1300	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE814	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/13/2018	Sample Time: 14:58:00
% Moisture:		% Solids: 77.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Chloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Bromomethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Chloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Acetone	Target	39		ug/kg	39		1.0	YES	S3VEM
Carbon disulfide	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Methylene chloride	Target	6.0	U	ug/kg	4.7	JB	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
2-Butanone	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Bromochloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Chloroform	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Cyclohexane	Target	2.3	J	ug/kg	2.3	J	1.0	YES	S3VEM
Carbon tetrachloride	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Benzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Trichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Toluene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	YES	S3VEM
Dibromochloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
o-xylene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Styrene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
Bromoform	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	6.0	UJ	ug/kg	6.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
3,4-Octadiene, 7-methyl-	TIC	3.6	J	ug/kg	3.6	J	1.0	YES	S3VEM
Ethyl ether	TIC	3.5	J	ug/kg	3.5	J	1.0	YES	S3VEM
Adamantane	TIC	9.3	J	ug/kg	9.3	J	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BE8B7	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/13/2018	Sample Time: 11:39:00
% Moisture:		% Solids: 78.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Chloromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Vinyl chloride	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Bromomethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Chloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Acetone	Target	940	U	ug/kg	940	U	1.0	YES	S3VEM
Carbon disulfide	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Methyl Acetate	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Methylene chloride	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
2-Butanone	Target	940	U	ug/kg	940	U	1.0	YES	S3VEM
Bromochloromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Chloroform	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Cyclohexane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Benzene	Target	320	J	ug/kg	320	J	1.0	YES	S3VEM
1,2-Dichloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Trichloroethene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Methylcyclohexane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Bromodichloromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	940	U	ug/kg	940	U	1.0	YES	S3VEM
Toluene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Tetrachloroethene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
2-Hexanone	Target	940	U	ug/kg	940	U	1.0	YES	S3VEM
Dibromochloromethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Chlorobenzene	Target	120	J	ug/kg	120	J	1.0	YES	S3VEM
Ethylbenzene	Target	220	J	ug/kg	220	J	1.0	YES	S3VEM
o-xylene	Target	1600		ug/kg	1600		1.0	YES	S3VEM
m,p-Xylene	Target	320	J	ug/kg	320	J	1.0	YES	S3VEM
Styrene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Bromoform	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
Isopropylbenzene	Target	10000		ug/kg	10000		1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	470	U	ug/kg	470	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,3,5-tetramethyl-	TIC	1900	J	ug/kg	1900	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	50000	J	ug/kg	50000	J	1.0	YES	S3VEM
Benzene, 1-ethyl-2-methyl-	TIC	70000	J	ug/kg	70000	J	1.0	YES	S3VEM
Benzene, 1-ethyl-2,4-dimethyl-	TIC	38000	J	ug/kg	38000	J	1.0	YES	S3VEM
Benzene, 2-ethenyl-1,4-dimethyl-	TIC	530	J	ug/kg	530	J	1.0	YES	S3VEM
Benzene, 1,2,4,5-tetramethyl-	TIC	1200	J	ug/kg	1200	J	1.0	YES	S3VEM
p-Cymene	TIC	2400	J	ug/kg	2400	J	1.0	YES	S3VEM
Benzene, (2-methylpropyl)-	TIC	3900	J	ug/kg	3900	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,4-dimethyl-	TIC	7700	J	ug/kg	7700	J	1.0	YES	S3VEM
Total Alkanes	TIC	16000	B	ug/kg	16000	B	1.0	YES	S3VEM
Benzene, 1,2-diethyl-	TIC	52000	J	ug/kg	52000	J	1.0	YES	S3VEM
Benzene, propyl-	TIC	42000	J	ug/kg	42000	J	1.0	YES	S3VEM
Benzene, 1-methyl-2-(2-propenyl)-	TIC	470	J	ug/kg	470	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF023	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 10:10:00
% Moisture:		% Solids: 83.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1254	Target	580		ug/kg	580		1.0	YES	S3VEM
Aroclor-1260	Target	330	J	ug/kg	330	P	1.0	YES	S3VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF023	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 10:10:00
% Moisture:		% Solids: 83.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	81	U	ug/kg	81	U	1.0	YES	S3VEM
Benzaldehyde	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Phenol	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
2-Chlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Acetophenone	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
4-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Hexachloroethane	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Nitrobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Isophorone	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2-Nitrophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Naphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
4-Chloroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Caprolactam	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2-Nitroaniline	Target	200	UJ	ug/kg	200	U	1.0	YES	S3VEM
Dimethylphthalate	Target	140	J	ug/kg	140	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Acenaphthylene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
3-Nitroaniline	Target	400	UJ	ug/kg	400	U	1.0	YES	S3VEM
Acenaphthene	Target	87	J	ug/kg	87	J	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	400	UJ	ug/kg	400	U	1.0	YES	S3VEM
4-Nitrophenol	Target	400	UJ	ug/kg	400	U	1.0	YES	S3VEM
Dibenzofuran	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Diethylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Fluorene	Target	87	J	ug/kg	87	J	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
4-Nitroaniline	Target	400	UJ	ug/kg	400	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	400	UJ	ug/kg	400	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
Atrazine	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Pentachlorophenol	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Phenanthrene	Target	1000		ug/kg	1000		1.0	YES	S3VEM
Anthracene	Target	250		ug/kg	250		1.0	YES	S3VEM
Carbazole	Target	59	J	ug/kg	59	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Di-n-butylphthalate	Target	170	J	ug/kg	170	J	1.0	YES	S3VEM
Fluoranthene	Target	1300		ug/kg	1300		1.0	YES	S3VEM
Pyrene	Target	1900		ug/kg	1900		1.0	YES	S3VEM
Butylbenzylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	890		ug/kg	890		1.0	YES	S3VEM
Chrysene	Target	920		ug/kg	920		1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	280		ug/kg	280		1.0	YES	S3VEM
Di-n-octyl phthalate	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	1100		ug/kg	1100		1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	350		ug/kg	350		1.0	YES	S3VEM
Benzo(a)pyrene	Target	880		ug/kg	880		1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	490		ug/kg	490		1.0	YES	S3VEM
Dibenz(a,h)anthracene	Target	160	J	ug/kg	160	J	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	530		ug/kg	530		1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S3VEM
1H-Indene, 1-phenyl-	TIC	130	J	ug/kg	130	J	1.0	YES	S3VEM
Retene	TIC	100	J	ug/kg	100	J	1.0	YES	S3VEM
unknown-01	TIC	86	J	ug/kg	86	J	1.0	YES	S3VEM
Benzo[b]triphenylene	TIC	230	J	ug/kg	230	J	1.0	YES	S3VEM
Benzo[c]phenanthrene	TIC	97	J	ug/kg	97	J	1.0	YES	S3VEM
Triethylamine	TIC	880	J	ug/kg	880	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	190	J	ug/kg	190	J	1.0	YES	S3VEM
Fluoranthene, 2-methyl-	TIC	100	J	ug/kg	100	J	1.0	YES	S3VEM
Triphenylene, 2-methyl-	TIC	110	J	ug/kg	110	J	1.0	YES	S3VEM
Benzene, 1-ethyl-3-methyl-	TIC	110	J	ug/kg	110	J	1.0	YES	S3VEM
6-Methyl-2,4-pyrimidinediamine	TIC	150	J	ug/kg	150	J	1.0	YES	S3VEM
Anthracene, 1-methyl-	TIC	120	J	ug/kg	120	J	1.0	YES	S3VEM
Total Alkanes	TIC	760		ug/kg	760		1.0	YES	S3VEM
Propiconazole	TIC	410	J	ug/kg	410	J	1.0	YES	S3VEM
2-Furancarboxylic acid	TIC	81	J	ug/kg	81	J	1.0	YES	S3VEM
Phenanthrene, 1-methyl-	TIC	240	J	ug/kg	240	J	1.0	YES	S3VEM
Phenanthrene, 2,5-dimethyl-	TIC	280	J	ug/kg	280	J	1.0	YES	S3VEM
11H-Benzo[a]fluorene	TIC	210	J	ug/kg	210	J	1.0	YES	S3VEM
Naphthalene, 2-phenyl-	TIC	120	J	ug/kg	120	J	1.0	YES	S3VEM
4H-Cyclopenta[def]phenanthrene	TIC	450	J	ug/kg	450	J	1.0	YES	S3VEM
Phenanthrene, 3,6-dimethyl-	TIC	130	J	ug/kg	130	J	1.0	YES	S3VEM
Benzo[e]pyrene	TIC	230	J	ug/kg	230	J	1.0	YES	S3VEM
11H-Benzo[b]fluorene	TIC	110	J	ug/kg	110	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF023MS	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 12/17/2018	Sample Time: 10:10:00
% Moisture:		% Solids: 83.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	420	J	ug/kg	420	P	1.0	YES	S3VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1254	Target	1500	J	ug/kg	1500	E	1.0	YES	S3VEM
Aroclor-1260	Spike	930	J	ug/kg	930	EP	1.0	YES	S3VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF023MSD	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 12/17/2018	Sample Time: 10:10:00
% Moisture:		% Solids: 83.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	370	J	ug/kg	370	P	1.0	YES	S3VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1254	Target	1500	J	ug/kg	1500	E	1.0	YES	S3VEM
Aroclor-1260	Spike	960	J	ug/kg	960	EP	1.0	YES	S3VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF024	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/17/2018	Sample Time: 12:05:00
% Moisture:		% Solids: 71.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Chloromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Vinyl chloride	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Bromomethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Chloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Acetone	Target	800	U	ug/kg	800	U	1.0	YES	S3VEM
Carbon disulfide	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Methyl Acetate	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Methylene chloride	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
2-Butanone	Target	800	U	ug/kg	800	U	1.0	YES	S3VEM
Bromochloromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Chloroform	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Cyclohexane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Benzene	Target	160	J	ug/kg	160	J	1.0	YES	S3VEM
1,2-Dichloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Trichloroethene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Methylcyclohexane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Bromodichloromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	800	U	ug/kg	800	U	1.0	YES	S3VEM
Toluene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Tetrachloroethene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
2-Hexanone	Target	800	U	ug/kg	800	U	1.0	YES	S3VEM
Dibromochloromethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Chlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Ethylbenzene	Target	470000		ug/kg	470000	D	100.0	YES	S3VEM
o-xylene	Target	13000		ug/kg	13000		1.0	YES	S3VEM
m,p-Xylene	Target	3100		ug/kg	3100		1.0	YES	S3VEM
Styrene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Bromoform	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
Isopropylbenzene	Target	34000		ug/kg	34000	D	20.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	400	U	ug/kg	400	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 2-chloro-1,3,5-trimethyl-	TIC	2100	J	ug/kg	2100	J	1.0	YES	S3VEM
unknown-02	TIC	3200	J	ug/kg	3200	J	1.0	YES	S3VEM
Total Alkanes	TIC	140000	B	ug/kg	140000	B	1.0	YES	S3VEM
Benzene, 1-ethyl-2,4-dimethyl-	TIC	18000	J	ug/kg	18000	J	1.0	YES	S3VEM
Benzene, 1,2,3,5-tetramethyl-	TIC	2800	J	ug/kg	2800	J	1.0	YES	S3VEM
Benzene, propyl-	TIC	51000	J	ug/kg	51000	J	1.0	YES	S3VEM
unknown-01	TIC	670	J	ug/kg	670	J	1.0	YES	S3VEM
Benzene, 2-ethyl-1,4-dimethyl-	TIC	6100	J	ug/kg	6100	J	1.0	YES	S3VEM
Benzene, 1,3-diethyl-	TIC	32000	J	ug/kg	32000	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	97000	J	ug/kg	97000	J	1.0	YES	S3VEM
Benzene, 1-ethyl-2-methyl-	TIC	270000	J	ug/kg	270000	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF025	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/14/2018	Sample Time: 09:35:00
% Moisture:		% Solids: 89.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1221	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1232	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1242	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1248	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1254	Target	460		ug/kg	460		1.0	YES	S3VEM
Aroclor-1260	Target	220	NJ	ug/kg	220	DP	2.0	YES	S3VEM
Aroclor-1262	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM
Aroclor-1268	Target	37	U	ug/kg	37	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: BF025	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: Supplemental Soil Borings	pH:	Sample Date: 12/14/2018	Sample Time: 09:35:00
% Moisture:	% Solids: 89.3		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	75	U	ug/kg	75	U	1.0	YES	S3VEM
Benzaldehyde	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Phenol	Target	99	J	ug/kg	99	J	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2-Chlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Acetophenone	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
4-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachloroethane	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Nitrobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Isophorone	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Nitrophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Naphthalene	Target	410		ug/kg	410		1.0	YES	S3VEM
4-Chloroaniline	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Caprolactam	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2-Nitroaniline	Target	190	UJ	ug/kg	190	U	1.0	YES	S3VEM
Dimethylphthalate	Target	100	J	ug/kg	100	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Acenaphthylene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
3-Nitroaniline	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
Acenaphthene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
4-Nitrophenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
Dibenzofuran	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Diethylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Fluorene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Nitroaniline	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	370	UJ	ug/kg	370	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	230		ug/kg	230		1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Atrazine	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Pentachlorophenol	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Phenanthrene	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Carbazole	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Di-n-butylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Fluoranthene	Target	190	J	ug/kg	190	J	1.0	YES	S3VEM
Pyrene	Target	200		ug/kg	200		1.0	YES	S3VEM
Butylbenzylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	91	J	ug/kg	91	J	1.0	YES	S3VEM
Chrysene	Target	99	J	ug/kg	99	J	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	250		ug/kg	250		1.0	YES	S3VEM
Di-n-octyl phthalate	Target	370	U	ug/kg	370	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	130	J	ug/kg	130	J	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	49	J	ug/kg	49	J	1.0	YES	S3VEM
Benzo(a)pyrene	Target	93	J	ug/kg	93	J	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	48	J	ug/kg	48	J	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	50	J	ug/kg	50	J	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S3VEM
unknown-01	TIC	120	J	ug/kg	120	J	1.0	YES	S3VEM
7H-Benz[de]anthracen-7-one	TIC	87	J	ug/kg	87	J	1.0	YES	S3VEM
9,10-Anthracenedione, 1-amino-	TIC	310	J	ug/kg	310	J	1.0	YES	S3VEM
Total Alkanes	TIC	5000		ug/kg	5000		1.0	YES	S3VEM
1,1-Bicyclopentyl	TIC	120	J	ug/kg	120	J	1.0	YES	S3VEM
4H-Cyclopenta[def]phenanthrene	TIC	79	J	ug/kg	79	J	1.0	YES	S3VEM
7H-Benz[de]anthracen-7-one, 3-brom	TIC	170	J	ug/kg	170	J	1.0	YES	S3VEM
9,10-Anthracenedione	TIC	100	J	ug/kg	100	J	1.0	YES	S3VEM
Oxalic acid, 2-ethylhexyl hexyl es	TIC	170	J	ug/kg	170	J	1.0	YES	S3VEM
4b,8-Dimethyl-2-isopropylphenantr	TIC	80	J	ug/kg	80	J	1.0	YES	S3VEM
unknown-02	TIC	280	J	ug/kg	280	J	1.0	YES	S3VEM
unknown-03	TIC	320	J	ug/kg	320	J	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	140	J	ug/kg	140	J	1.0	YES	S3VEM
Benzene, 4-ethyl-1,2-dimethyl-	TIC	230	J	ug/kg	230	J	1.0	YES	S3VEM
unknown-04	TIC	99	J	ug/kg	99	J	1.0	YES	S3VEM
.beta.-iso-Methyl ionone	TIC	250	J	ug/kg	250	J	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: SBLK71	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	67	U	ug/kg	67	U	1.0	YES	S3VEM
Benzaldehyde	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Phenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
2-Chlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2-Methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Acetophenone	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
4-Methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Hexachloroethane	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Nitrobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Isophorone	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2-Nitrophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Naphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
4-Chloroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Caprolactam	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2-Nitroaniline	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Dimethylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Acenaphthylene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
3-Nitroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Acenaphthene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
4-Nitrophenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Dibenzofuran	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Diethylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Fluorene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
4-Nitroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Atrazine	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Pentachlorophenol	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Phenanthrene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Fluoranthene	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Chrysene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	330	U	ug/kg	330	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S3VEM
Total Alkanes	TIC	890		ug/kg	890		1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK42	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromomethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Acetone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl Acetate	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Butanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Benzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Toluene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
o-xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
m,p-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Styrene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromoform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK57	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromomethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Acetone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl Acetate	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Butanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Benzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Toluene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
o-xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
m,p-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Styrene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromoform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK59	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromomethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Acetone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl Acetate	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Butanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chloroform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Benzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Toluene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
o-xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
m,p-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Styrene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Bromoform	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK72	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	3.5	J	ug/kg	3.5	J	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK74	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	4.7	J	ug/kg	4.7	J	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK88	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	6.6		ug/kg	6.6		1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VBLK91	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	9.6		ug/kg	9.6		1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Acetone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylene chloride	Target	9.1		ug/kg	9.1	B	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Butanone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
2-Hexanone	Target	9.9	U	ug/kg	9.9	U	1.0	YES	S3VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC			ug/kg			1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 47747/EPW14030/BE7Z7

Lab Name: Chemtech Consulting Group